

University of Illinois Fire Service Institute

Course Syllabus

Course Title: Facility Fire Brigade – Incipient - Interior Structural

Course Duration: 40 Hours

Program: Firefighting

Course Prerequisites: None

Required for National Certification (ProBoard):

Hazardous Materials Operations

Course Description: This course is designed to be essential training for new or existing members of a Facility Fire Brigade. The first section of this course is firefighting performed inside or outside of an enclosed structure when the fire has not progressed beyond the incipient stage. The second section of this course then focuses on offensive firefighting performed outside and inside of an enclosed structure when the fire has advanced beyond the incipient stage. This course is designed to meet the NFPA 1081 Standard for Facility Fire Brigade Member Professional Qualifications (2018 Edition) Chapters 4, 5, and 6.

Completion of this course awards ProBoard certification to qualified students. If you would like certification, you must provide proof that you are trained at the Hazardous Materials Operations level or above.

Course Requirements and/or Recommendations: These can be divided into three categories: those completed prior to arriving in class (Pre-Course Work), those completed during class, such as homework assignments and quizzes (Course Work), and requirements completed after class but prior to receiving a certificate of completion. (Post-Course Work)

Summary of Directions

Pre-Course Work: None

Course Work: Participate in all classroom and hands-on activities.
Pass performance evaluations

Post-Course Work: None

Course Policies:

Attendance Policy: IFSI requires students to attend (100%) or make up all course content that leads to certification. Students are expected to attend on time and to remain in class for the duration of the course. Students **MUST COMPLETE** all portions of a certification course, both classroom and practical, to be eligible to receive their certification.

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If a student misses any portion of class with an accumulated absence of 20% or less of scheduled class time, it will be the student's responsibility to arrange the make-up of the missed course content with the instructor(s) or program manager. The student must make up the specific course content that s/he missed, not just the hours. Make-ups are limited to 20% of scheduled class time. Make-ups must be documented on the class roster. If a student's absence is greater than 20% refer to "True Emergencies" section of the IFSI Examination Policy.

Safety Policy: Students shall understand and follow all instructions pertaining to operational safety, as stated by instructors, or as written in course materials. Instructors and students shall be always mindful of safety. Conduct judged to be unsafe shall be grounds for dismissal from the course.

Academic Integrity Policy: IFSI has the responsibility for maintaining academic integrity to protect the quality of the education provided through its courses, and to protect those who depend upon our integrity. It is the responsibility of the student to refrain from infractions of academic integrity, from conduct that may lead to suspicion of such infractions, and from conduct that aids others in such infractions. Any violation of the code of conduct is grounds for immediate dismissal from the course.

Grading Policy: Decisions regarding certificates of course completion shall be made solely by the lead instructor of the course. All grading of exams shall be conducted by the Curriculum/Testing Office. All grading of practical exercises shall be based upon the standards set by the regulatory agency referenced in the course material and IFSI.

Retesting: If a student fails to pass an exam, retesting takes place on set dates at regional sites across the state. More information is provided in the course completion e-mail and on the IFSI website.

American Disabilities Act: As guaranteed in the Vocational Rehabilitation Act and in the American Disabilities Act, if any student needs special accommodations, they are to notify their instructor and provide documentation as soon as possible so arrangements can be made to provide for the student's needs. If arrangements cannot be made at the class site, the student will test at an alternative time and place where the special accommodations can be made.

Evaluation Strategy: Students will be evaluated using performance evaluation checklists.

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Course Content:

Chapter: 1

Title: Brigade Member Qualifications and Safety

Terminal Learning Objective:

At the conclusion of this chapter, the student will explain the roles and responsibilities of the Fire Brigade Members.

Chapter: 2

Title: Standard Operating Procedures and Guidelines

Terminal Learning Objectives:

At the conclusion of this chapter, the student will explain the difference between Standard Operating Procedures and Standard Operating Guidelines.

Chapter: 3

Title: Fire Service Communications

Terminal Learning Objectives:

At the conclusion of this chapter, the student will communicate during a simulated emergency response.

Chapter: 4

Title: Incident Management System

Terminal Learning Objective:

At the conclusion of this chapter, the student will describe the operations of the Incident Management System during an emergency response.

Chapter: 5

Title: Fire Behavior

Terminal Learning Objective:

At the conclusion of this chapter, the student will explain how principles of fire behavior affect fire ground procedures.

Chapter: 6

Title: Building Construction

Terminal Learning Objective:

At the conclusion of this chapter, the student will predict how a fire will spread based on the building's construction.

Chapter: 7

Title: Extinguishers

Terminal Learning Objective:

At the conclusion of this chapter, the student will explain the proper extinguisher for different classes of fire.

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Chapter: 8

Title: Brigade Member Tools and Equipment

Terminal Learning Objective:

At the conclusion of this chapter, the student will be able to identify tools and equipment utilized by Fire Brigades.

Chapter: 10

Title: Response and Size-Up

Terminal Learning Objective:

At the conclusion of this chapter, the student will respond to an emergency scene.

Chapter: 11

Title: Forcible Entry

Terminal Learning Objective:

At the conclusion of this chapter, the student will understand the use of tools used during forcible entry.

Chapter: 12

Title: Ladders

Terminal Learning Objective:

At the conclusion of this chapter, the student will describe proper deployment and use of ladders.

Chapter: 13

Title: Search and Rescue

Terminal Learning Objective:

At the conclusion of this chapter, the student will explain the components of search and rescue.

Chapter: 14

Title: Ventilation

Terminal Learning Objective:

At the conclusion of this chapter, the student will explain ventilation.

Chapter: 15

Title: Water Supply

Terminal Learning Objective:

At the conclusion of this chapter, the student will explain water supply during firefighting operations.

Chapter: 16

Title: Fire Hose, Nozzles and Streams

Terminal Learning Objective:

At the conclusion of this chapter, the student will explain the effective use of fire streams during firefighting operations.

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Chapter: 17

Title: Foam

Terminal Learning Objective:

At the conclusion of this chapter, the student will explain the different application and foams available.

Chapter: 18

Title: Brigade Member Survival

Terminal Learning Objective:

At the conclusion of this chapter, the student will understand the purpose for member accountability, risk analysis, and the Rapid Intervention Crew.

Chapter: 19

Title: Salvage and Overhaul

Terminal Learning Objective:

At the conclusion of this chapter, the student will identify the purpose of salvage and overhaul.

Chapter: 21

Title: Fire Suppression

Terminal Learning Objective:

At the conclusion of this chapter, the student will explain tactics used on the fire ground.

Chapter: 22

Title: Pre-incident Planning

Terminal Learning Objective:

At the conclusion of this chapter, the student will explain the importance of pre-incident planning.

Chapter: 25

Title: Fire Detection, Protection, and Suppression Systems

Terminal Learning Objective:

At the conclusion of this chapter, the student will explain fire prevention protection systems.

Chapter: 26

Title: Fire Cause Determination

Terminal Learning Objective:

At the conclusion of this chapter, the student will describe various fire causes.

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Reference List:

Facility Fire Brigade: Principles and Practice, Second Edition. Jones and Bartlett Learning, 2021.

NFPA 1081 Standard for Facility Fire Brigade Member Professional Qualifications, 2018 Edition

NFPA 600 Standard on Facility Fire Brigades, 2020 Edition

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Course Schedule

DAY ONE

<u>Event</u>	<u>Duration</u>
Chapter 1 – Brigade Member Qualifications and Safety	1 hour
Chapter 2 – Standard Operating Procedures and Guidelines	15 minutes
Chapter 22 – Pre-Incident Planning	30 minutes
Drill 22.1 Fire Safety Survey	30 minutes
Drill 22.2 Preplan	30 minutes
Chapter 3 – Fire Service Communications	30 minutes
Drill 3.1 – Emergency Communications	45 minutes
Chapter 4 – Incident Management Services	30 minutes
Lunch	
Chapter 5 – Fire Behavior	1 hour
Chapter 6 – Building Construction	30 minutes
Chapter 7 – Fire Extinguishers	1 hour
Drill 7.1 Dry Chemical Extinguisher	30 minutes
Chapter 8 – Brigade Member Tools and Equipment	1 hour
Drill 8.1 Extinguisher Maintenance	1 hour
Chapter 10 – Response and Size Up	30 minutes

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DAY TWO

<u>Event</u>	<u>Duration</u>
Chapter 18 – Brigade Member Survival	30 minutes
Chapter 15 – Water Supply	30 minutes
Drill 15.1 Hydrant Connection	1 hour
Chapter 16 – Fire Hose, Nozzles, and Streams	1 hour
Drills 16.1 Nozzle Operations	1 hour
Drill 8.2 Hose Rolls	30 minutes
Lunch	
Chapter 21 – Fire Suppression	1 hour
Drill 21.1 Stream Application	1 hour
Drill 21.3 Dumpster fire	30 minutes
Drill 7.2 APW & Pump Can	30 minutes
Chapter 25 – Fire Detection, Protection, and Suppression Systems	1 hour
Drill 25.1 Fire Alarm Panel	30 minutes
Drill 25.2 Fire Protection System	30 minutes
Drill 25.3 Fire Department Connection	30 minutes

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DAY THREE

<u>Event</u>	<u>Duration</u>
Drill 1.1 Don and Doff PPE	1 hour
Drill 1.2 Don SCBA	1 hour
Drill 1.3 SCBA Emergency Procedures	30 minutes
Drill 1.4 Basic SCBA Can	1 hour
Chapter 26 – Fire Cause and Determination	30 minutes
Chapter 14 – Ventilation	40 minutes
Chapter 11 – Forcible Entry	40 minutes
Lunch	
Drill 11.1 Force inward and outward doors	30 minutes
Chapter: 13 - Search and Rescue	40 minutes
Drill 13.1 Search Primary/Secondary	30 minutes
Drill 13.2 Drags and Carries	1 hour
Drill 18.1 Responder Intervention Crew	30 minutes
Drill 3.2 Initiating a MAYDAY	1 hour
Chapter 17 Foam	30 minutes

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DAY FOUR

<u>Event</u>	<u>Duration</u>
Drill 17.1 Assemble Foam Stream Components	30 minutes
Drill 21.2 Master Streams	30 minutes
Chapter: 12 – Ladders	1 hour
Drill 12.1 Two Person Ladder carry	20 minutes
Drill 12.2 Two Person Firefighter Raise	20 minutes
Drill 14.1 Horizontal Ventilation	20 minutes
Chapter 19 – Salvage and Overhaul	30 minutes
Drill 19.1 Salvage Cover Fold and Deployment	45 minutes
Lunch	
Drill 21.4 LP Burn	1 hour
Drill 21.6 Vehicle Fire	45 minutes
Drill 21.5 Single Family Fire	45 minutes
Drill 1.5 Field Decontamination of PPE	45 minutes
Performance evaluations	2 hours 30 minutes
